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AMENDMENT

(Amendment based upon the provision of Article 11 of said Law)

To: Examiner of the Patent Office

- 1. Identification of the International Application PCT/JP2004/006610
- 2. Applicant

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- 4. Item to be amended: Claims
- 5. Subject Matter of Amendment

Claim 1 has been amended to include the limitations of claims 2 and 3. Claims 2 and 3 have been cancelled.

Claim 5 has been amended to include the limitations of claims 6 and 7. Claims 6 and 7 have been cancelled.

Claim 9 has been amended to include the limitations of claims 10 and 11. Claims 10 and 11 have been cancelled. Claim 12 has been amended to depend from claim 9.

Claim13 has been amended to include the limitations of claims 14 and 15. Claims 14 and 15 have been cancelled. Claim 16 has been amended to depend from claim 13.

Claims 17 to 20 have been amended to include the limitations of claims 2 and 3.

Claims 4, 8 and 21 remain unchanged.

- 5. List of Attached Documents:
 - (1) Replacement sheets of pages 27 to 38

CLAIMS

1. (Amended) A peripheral device which can communicate with a plurality of client devices connected to a network, comprising:

notification means for notifying a proxy response server connectable to the network of a sleep mode transition request when the peripheral device changes from a normal data processing wait status to a sleep mode;

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reception means receiving a sleep release request from the proxy response server based on a network packet indicating a peripheral device discovery request for a peripheral device which is changing to a predetermined sleep mode issued by any client device connected to the network after the proxy response server receives the sleep mode transition request from the peripheral device; and

control means for releasing the sleep mode and returning to a data processing wait status when said reception means receives the sleep release request,

wherein the network packet which is the peripheral device discovery request is a search request packet for a predetermined multicast address set as a predetermined network address for a plurality of peripheral devices, and

wherein the multicast address for a peripheral

device discovery request in a sleep status can be different from a multicast address of a peripheral device discovery request in a normal status.

- 2. (Cancelled)
- 5 3. (Cancelled)

- 4. (Unchanged) The peripheral device according to claim 1, wherein the search request packet includes a StandbyQuery instruction indicating a discovery request to a sleeping device.
- 5. (Amended) A server device proxy for a peripheral device which can communicate with a plurality of client devices connected to a network, comprising:

registration means for receiving and

registering a sleep transition request announced from a peripheral device in the network when the peripheral device changes from a normal data processing wait status to a sleep mode;

discovery means for retrieving a peripheral

device in a sleep status depending on a network

packet indicating a specific peripheral device

discovery request for discovery of a sleeping

peripheral device issued from any client device

connected to the network after registration by said

registration means; and

notification means for notifying a sleeping

peripheral device whose sleep release request has been registered for release of a sleep mode to a peripheral device retrieved by said discovery means,

wherein the network packet which is the

peripheral device discovery request is a search

request packet for a predetermined multicast address

set as a predetermined network address for a

plurality of peripheral devices, and

wherein the multicast address for a peripheral device discovery request in a sleep status can be different from a multicast address of a peripheral device discovery request in a normal status.

6. (Cancelled)

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- 7. (Cancelled)
- 15 8. (Unchanged) The server device according to claim 5, wherein the search request packet includes a StandbyQuery instruction indicating a discovery request to a sleeping device.
- 9. (Amended) A client device which can
 20 communicate with a plurality of peripheral devices or
 server devices connected over a network, comprising:

issue means for issuing a network packet indicating a specific peripheral device discovery request for discovery of a peripheral device during transition to sleep status based on a response result

from a network for a request to retrieve a peripheral device in a normal status;

reception means for receiving a return response from any peripheral device notified of a sleep release request by said server device after the peripheral device discovery request has issued by said issue means; and

data processing means for transmitting a predetermined data processing request to a specific peripheral device whose sleep mode has been released after said reception means has received the return response,

wherein the network packet which is the peripheral device discovery request is a search request packet for a predetermined multicast address set as a predetermined network address for a plurality of peripheral devices, and

wherein the multicast address for a peripheral device discovery request in a sleep status can be different from a multicast address of a peripheral device discovery request in a normal status.

10. (Cancelled)

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- 11. (Cancelled)
- 12. (Amended) The client device according to 25 claim 9, wherein the search request packet includes a

StandbyQuery instruction indicating a discovery request to a sleeping device.

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13. (Amended) A network device system in which a plurality of peripheral devices connected over a network can communicate with a plurality of client devices capable of recognizing a connection status of a peripheral device in a data processing wait status in the network,

wherein said peripheral device comprises:

- notification means for notifying a proxy response server connectable to the network of a sleep mode transition request when the peripheral device changes from a normal data processing wait status to a sleep mode;
- request from the proxy response server based on a network packet indicating a peripheral device discovery request for a peripheral device which is changing to a predetermined sleep mode issued by any client device connected to the network after the proxy response server receives the sleep mode transition request from the peripheral device; and

control means for releasing the sleep mode and returning to a data processing wait status when said reception means receives the sleep release request,

wherein said proxy response server comprises:

registration means for receiving and registering a sleep transition request announced from a peripheral device in the network when the peripheral device changes from a normal data processing wait status to a sleep mode;

discovery means for retrieving a

peripheral device in a sleep status depending on a

network packet indicating a specific peripheral

device discovery request for discovery of a sleeping

peripheral device issued from any client device

connected to the network after registration by said

registration means; and

notification means for notifying a sleeping peripheral device whose sleep release request has been registered for release of a sleep mode to a peripheral device retrieved by said discovery means,

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and wherein said client device comprises:

issue means for issuing a network packet
indicating a specific peripheral device discovery
request for discovery of a peripheral device during
transition to sleep status based on a response result
from a network for a request to retrieve a peripheral
device in a normal status;

reception means for receiving a return response from any peripheral device notified of a sleep release request by said server device after the

peripheral device discovery request has issued by said issue means; and

data processing means for transmitting a predetermined data processing request to a specific peripheral device whose sleep mode has been released after said reception means has received the return response,

wherein the network packet which is the peripheral device discovery request is a search request packet for a predetermined multicast address set as a predetermined network address for a plurality of peripheral devices, and

wherein the multicast address for a peripheral device discovery request in a sleep status can be different from a multicast address of a peripheral device discovery request in a normal status.

14. (Cancelled)

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- 15. (Cancelled)
- 16. (Amended) The network device system
 20 according to claim 13, wherein the search request
 packet includes a StandbyQuery instruction indicating
 a discovery request to a sleeping device.
 - 17. (Amended) A device retrieving method for use with a peripheral device which can communicate

with a plurality of client devices connected to a network, comprising:

a notifying step of notifying a proxy response server connectable to the network of a sleep mode transition request when the peripheral device changes from a normal data processing wait status to a sleep mode;

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a receiving step of receiving a sleep release request from the proxy response server based on a network packet indicating a restriction means for a peripheral device which is changing to a predetermined sleep mode issued by any client device connected to the network after the proxy response server receives the sleep mode transition request from the peripheral device; and

control step of releasing the sleep mode and returning to a data processing wait status when said receiving step receives the sleep release request,

wherein the network packet which is the

20 peripheral device discovery request is a search
request packet for a predetermined multicast address
set as a predetermined network address for a
plurality of peripheral devices, and

wherein the multicast address for a peripheral device discovery request in a sleep status can be different from a multicast address of a peripheral device discovery request in a normal status.

- 18. (Amended) A device retrieving method for use with a server device proxy for a peripheral device which can communicate with a plurality of client devices connected to a network, comprising:
- a registration step of receiving and registering a network packet indicating a sleep transition request announced from a peripheral device in the network when the peripheral device changes from a normal data processing wait status to a sleep

mode;

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a retrieving step of retrieving a peripheral device in a sleep status depending on a network packet indicating a specific peripheral device discovery request for discovery of a sleeping peripheral device issued from any client device connected to the network after registration in said registering step; and

a notifying step of notifying a sleeping peripheral device whose sleep release request has been registered for release of a sleep mode to a peripheral device retrieved in said retrieving step,

wherein the network packet which is the peripheral device discovery request is a search request packet for a predetermined multicast address set as a predetermined network address for a plurality of peripheral devices, and

wherein the multicast address for a peripheral device discovery request in a sleep status can be different from a multicast address of a peripheral device discovery request in a normal status.

19. (Amended) A device retrieving method for use with client device which can communicate with a plurality of peripheral devices or server devices connected over a network, comprising:

a issuing step of issuing a network packet indicating a specific peripheral device discovery

request for discovery of a peripheral device during transition to sleep status based on a response result from a network for a request to retrieve a peripheral device in a normal status;

a receiving step of receiving a return response from any peripheral device notified of a sleep release request by said server device after the peripheral device discovery request has issued in said issuing step; and

a data processing step of transmitting a predetermined data processing request to a specific peripheral device whose sleep mode has been released after said receiving step has received the return response,

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wherein the network packet which is the peripheral device discovery request is a search request packet for a predetermined multicast address set as a predetermined network address for a plurality of peripheral devices, and

wherein the multicast address for a peripheral device discovery request in a sleep status can be different from a multicast address of a peripheral device discovery request in a normal status.

15 20. (Amended) A device retrieving method for use with a network device system in which a plurality of peripheral devices connected over a network can communicate with a plurality of client devices capable of recognizing a connection status of a 20 peripheral device in a data processing wait status in the network,

wherein in said peripheral device, said method comprises:

a notifying step of notifying a proxy

25 response server connectable to the network of a

network packet indicating a sleep mode transition

request when the peripheral device changes from a

normal data processing wait status to a sleep mode;

a receiving step of receiving a sleep
release request from the proxy response server based
on a peripheral device discovery request for a

peripheral device which is changing to a
predetermined sleep mode issued by any client device
connected to the network after the proxy response
server receives the sleep mode transition request
from the peripheral device; and

a control step of releasing the sleep mode and returning to a data processing wait status when said receiving step receives the sleep release request,

5 wherein in said proxy response server, said method comprises:

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a registering step of receiving and registering a sleep transition request announced from a peripheral device in the network when the peripheral device changes from a normal data processing wait status to a sleep mode;

a retrieving step of retrieving a peripheral device in a sleep status depending on a network packet indicating a specific peripheral device discovery request for discovery of a sleeping peripheral device issued from any client device connected to the network after registration in said registering step; and

a notifying step of notifying a sleeping

20 peripheral device whose sleep release request has

been registered for release of a sleep mode to a

peripheral device retrieved in said retrieving step,

and wherein in said client device, said method comprises:

an issuing step of issuing a network packet indicating a specific peripheral device discovery request for discovery of a peripheral

device during transition to sleep status based on a response result from a network for a request to retrieve a peripheral device in a normal status;

a receiving step of receiving a return

5 response from any peripheral device notified of a
sleep release request by said server device after the
peripheral device discovery request has issued in
said issuing step; and

a data processing step of transmitting a

10 predetermined data processing request to a specific peripheral device whose sleep mode has been released after said reception means has received the return response,

wherein the network packet which is the peripheral device discovery request is a search request packet for a predetermined multicast address set as a predetermined network address for a plurality of peripheral devices, and

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wherein the multicast address for a peripheral device discovery request in a sleep status can be different from a multicast address of a peripheral device discovery request in a normal status.

21. (Unchanged)—The peripheral device according to claim 1, wherein said sleep mode refers to a mode to which power is not supplied to a status management unit of a printer controller from which a LAN controller can receive a status.